

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A product comprising:

~~a surface for receiving position codes;~~

a writing position code region on said surface, said writing position code region having a first subset of a position codes provided thereon which codes a plurality of positions on the writing position code region to enable electronic recording of information which is being written on the writing surface position code region, by means of a device which detects the position codes; and

at least one activation icon coded by ~~at least one~~ a second subset of the position code representing said activation icon and coding ~~a~~ at least one position, ~~which is different from the positions coded by the position codes contained in said writing position code region~~ which activation icon, when detected by the device, causes the device to initiate a predetermined operation which utilizes the information recorded by the device from said writing position code region, the device detecting the activation icon by using information stored in the device's memory indicative of which positions belong to the writing position code region and the activation icon, respectively.

2.-3. (Canceled).

4. (Currently Amended) A product as claimed in claim 1, wherein the first subset of the position codes on the writing position code region are codes coordinates forming a first coordinate area which is discontinuous with the a second coordinate area formed by coordinates coded by the second subset of the position code at least one position code on said at least one activation icon.

5. (Currently Amended) A product as claimed in claim 1, wherein the ~~at least one position code with which said at least one activation icon is provided constitutes a first subset of a set of position code is an absolute position codes, which codes coordinates~~

for points on an imaginary surface, the ~~first~~second subset coding coordinates for at least one point on the imaginary surface, which point is dedicated to initiation of said operation.

6. (*Currently Amended*) A product as claimed in claim 1, wherein the position code ~~is associated with which said writing position code region are provided constitutes a second subset of a set of absolute position codes which coding codes~~ coordinates for points on an imaginary surface, the ~~second~~first subset coding coordinates within an area on the imaginary surface, said area being dedicated to electronic recording of information.

7. (*Currently Amended*) A product as claimed in any one of claims 1, ~~and 3 and~~ 4-6, which product further comprises a character recognition area which is provided with a third subset of the position codes.

8. (*Currently Amended*) A product as claimed in claim 7, wherein the position codes ~~with which said character recognition area is provided constitute a third subset of a set of absolute position codes coding coordinates for points on an imaginary surface, and wherein the third subset of the position code codes coordinates within an area on the imaginary surface, said area being dedicated to information, the characters of which are to be recognized.~~

9. (*Previously Presented*) A product as claimed in claim 1, wherein said at least one activation icon consists of a plurality of activation icons for initiating various predetermined operations.

10. (*Currently Amended*) A product as claimed in claim 1, wherein ~~said at least one activation icon and the position codes are~~is optically detectable.

11. (*Currently Amended*) A product as claimed in claim 1, wherein ~~said at least one activation icon and the first and the second subsets of the position codes code~~ are detectable by means of one and the same sensor.

12. (*Previously Presented*) A product as claimed in any one of claims 1, and 9-11, wherein the predetermined operation is an operation from the following group: dialing a telephone number included in the recorded information, sending a fax containing the recorded information, sending an electronic message containing the recorded information, writing address information included in the recorded information in an electronic address book, entering calendar information included in the recorded information in an electronic calendar, entering a task included in the recorded information in an electronic list, printing the recorded information using a printer, and storing the recorded information at a predetermined location.

13. (*Currently Amended*) A product as claimed in any one of claims 1, and 9-11, wherein each position ~~code comprises~~ is coded by a plurality of symbols and wherein each symbol contributes to the coding of more than one position.

14. (*Currently Amended*) A product as claimed in any one of claims 1, and 9-11, wherein the position code comprises a raster and a plurality of ~~substantially similar symbols~~ markings, the value of each symbol being determined by the ~~displacement position of a marking in relation to said raster, each of which is displaced in relation to a respective nominal position defined by the raster to code the positions of the position code.~~

15. (*Previously Presented*) A product as claimed in any one of claims 1, and 9-11, said product being a notepad with a plurality of writing position code regions.

16. (*Currently Amended*) A product as claimed in claim 15, wherein the position codes code on the various writing position code regions code different positions.

17. (*Currently Amended*) A product as claimed in any one of claims 1, and 9-11, which product is a paper product consisting of at least one sheet comprising said surface on which the writing position code region is provided, at least part of another surface of the sheet being coated with a preferably weakly adhesive layer.

18. (*Previously Presented*) A product as claimed in claim 17, wherein the writing position code region and the adhesive layer are located on opposite sides of the sheet.

19. (*Previously Presented*) A product as claimed in claim 17, wherein the product comprises a plurality of essentially identical sheets.

20. (*Currently Amended*) An information management device for electronically recording information that is being written on a writing surface, the writing surface being provided with a first subset of a position codes readable from the surface thereof, which codes a plurality of positions on the writing surface, comprising:

a pen for moving across the writing surface and for interacting with an activation icon, which is provided with a second subset of the position code, which codes at least one position on the activation icon;

a reader mounted for movement with the pen for reading said position code provided on the writing surface while the pen is moving across the writing surface and when the pen is interacting with the activation icon;

a memory mounted for movement with the pen and storing information indicative of which positions are coded on the writing surface and the activation icon, respectively;

processing circuitry mounted for movement with the pen for using the position codes read by said reader from the writing surface to develop pen path information, said processing circuitry identifying when said pen interacts with an activation icon,

~~coded by at least one position code representing said activation icon by using the information stored in the memory, and interpreting said activation icon to produce a signal to initiate a predetermined operation which utilizes the pen path information.~~

21.-22. (*Canceled*).

23. (*Currently Amended*) A device as claimed in claim 20, wherein said reader includes at least one sensor for the ~~electronic recording reading~~ of the position codes read to develop the pen path information and of identify the interaction with the activation icon.

24. (*Currently Amended*) A device as claimed in claim 23, wherein the device comprises a single sensor for the ~~recording of the pen path information and the activation icon reading of the first and second subsets of the position code.~~

25.-26. (*Canceled*).

27. (*Currently Amended*) A device as claimed in claim 20, 23 or 24, wherein said processing circuitry includes a character recognition function which is adapted to convert at least part of the recorded pen path information to character-coded format.

28. (*Currently Amended*) A device as claimed in any one of claims 20, 23, or 24, wherein the device comprises a memory for storing the recorded pen path information.

29. (*Currently Amended*) A device as claimed in any one of claims 20, 23, or 24, wherein the device is adapted to utilize, in the initiation of the predetermined operation, that part of the pen path information which has been recorded from the writing surface during a predetermined period.

30. (*Currently Amended*) A device as claimed in any one of claims 20, 23, or 24, wherein the device is adapted to utilize, in the initiation of the predetermined operation, pen path information that has been recorded in a predetermined area on the writing surface.

31. (*Previously Presented*) A device as claimed in any one of claims 20, 23, or 24, wherein the device comprises a transceiver for wireless short-range communication.

32. (*Canceled*).

33. (*Currently Amended*) A device as claimed in any one of claims 20, 23, or 24, further comprising a mobile telephone transceiver for transferring the recorded pen path information from the device to an external unit, the predetermined operation being an operation from the following group: dialing a telephone number included in the recorded pen path information, sending a fax containing the recorded pen path information, sending an electronic message with text with the recorded information, printing the recorded pen path information using a printer, and transferring the recorded pen path information to a drawing program.

34. (*Currently Amended*) A device as claimed in any one of claims 20, 23, or 24, wherein the device comprises at least one computer program of the type address book program or calendar program or to-do-list program, the predetermined operation consisting of entering a piece of information contained in the recorded pen path information in a register for use in one of said computer programs.

35. (*Previously Presented*) A device as claimed in any one of claims 20, 23, or 24 which device is handheld.

36. (*Currently Amended*) A device as claimed in any one of claims 20, 23, or 24 further comprising a pen point for writing the pen path information on the writing surface while being recorded electronically.

37. (*Previously Presented*) A device as claimed in any one of claims 20, 23, or 24 further comprising means for providing a feedback signal to the user when the device detects said at least one activation icon.

38. (*Previously Presented*) A device as claimed in any one of claims 20, 23, or 24 further comprising means for indicating when the device detects the position code.

39. (*Currently Amended*) In a system wherein a pen provided with a position code reader reading a position codes code provided on a writing surface and on an activation icon representative of an order for an computer controlled action, a computer program for information management, which is stored on a computer-readable storage medium provided in the pen when used and which performs the steps of:

receiving, as an input signal, a plurality of positions indications obtained from said position codes code,

using information in a memory of the pen indicative of which positions are coded by the position code on the writing surface and on the activation icon, respectively, to establish whether positions received in the input signal belong to the writing surface or the activation icon,

processing received position indications positions belonging to the writing surface as representing information written by the pen on the writing surface if the position indications belong to a first subset of positions coded by the position codes; and

interpreting a received position indication position belonging to the activation icon as a command to initiate a predetermined operation which utilizes the information written on the writing surface, if the position indication belongs to a second subset of positions coded by said position codes and representing an activation icon.

40.-42. (*Canceled*).

43. (*Currently Amended*) A system for information management, comprising:  
a sensing wand adapted to record information electronically ~~from~~ ~~by~~ ~~using~~ position information obtained from a first subset of a position codes provided on a writing region ~~and to detect interaction with at least one activation icon by using position information obtained from a second subset of the position code with which the activation icon is provided;~~  
a memory in said sensing wand, which stores information indicative of positions coded on the writing region and the activation icon by said first and second subset, respectively; and  
a sensed product, said product supplying the position information to said sensing wand and being provided with the writing region and said at least one activation icon ~~indicating a predetermined operation and identified by at least one position code,~~  
the sensing wand being adapted to initiate the predetermined operation for the recorded information obtained from the writing region in response to the detection of ~~said at least one activation icon on the product by detection of the at least one position code, said detection occurring when the sensing wand establishes that position information received from the sensed product corresponds to a position coded on the activation icon by the second subset of the position code.~~

44.-46. (*Canceled*).

47. (*Currently Amended*) A method for interacting with information written on a writing surface provided with a first subset of a position code identifying ~~coding~~ positions on the writing surface and at least one activation icon ~~having~~ provided with ~~at least one position code~~ a second subset of the position code coding ~~the~~ at least one

position on the activation icon ~~thereof~~, the activation icon being representative of a computer function, comprising:

using a position code reader to read the position codes ~~code on the writing surface and the at least one activation icon in order to record the information written on the writing surface and to actuate the activation icon~~ ~~representative of pen interaction with the writing surface,~~

decoding the read position code to positions,

using pre-stored information indicative of which positions are coded on the writing surface and the at least one activation icon by the first and second subset, respectively, to determine if decoded positions belong to the writing surface or the activation icon,

~~processing decoded said positions codes belonging to the writing surface as to record handwritten information introduced to written on said writing surface;~~

~~by interaction with said pen;~~

~~identifying processing the position coded by said at least one position code of a decoded position belonging to the activation icon as an said activation icon to identify actuation of said activation icon and issuing an instruction to initiate the computer function the activation icon represents;~~

said steps of decoding, using and processing being performed within a device including said position code reader;

~~receiving said instruction generated by said step of identifying and initiating the computer function the activation icon represents in response thereto;~~

~~said computer function utilizing the handwritten information recorded from said position codes~~ ~~the writing surface;~~

said step of receiving and initiating being performed in a digital computer located remotely from said position code reader.

48.-49. (Cancelled).

50. (*Currently Amended*) The method of ~~claim 49~~ claim 47 wherein said digital computer performs the step of displaying the handwritten information as an image in a program window associated with an application in said computer in response to actuation of said activation icon.

51. (*Currently Amended*) A system for interacting with information written on a writing surface provided with ~~position codes~~ a first subset of a position code identifying coding positions on the writing surface and at least one activation icon ~~having at least one~~ provided with a second subset of the position code coding the ~~at least one~~ position on the activation icon thereof, said activation icon being representative of a computer function, comprising:

a pen provided with a position code reader ~~reading the position code elements provided on the writing surface~~ obtaining position indications from the position code on the writing surface and the activation icon in order to record the information written on the writing surface and to actuate the activation icon,

a processor system ~~including~~, including:

a first processor portion ~~collocated with the pen and having a memory which stores information indicative of positions coded on the writing surface and on the activation icon by the first and second subset, respectively, of the position code, said first processor portion processing obtained position indications indicating positions belonging to the writing surface as information written on said writing surface, and processing an obtained position indication indicating a position belonging to the activation icon as an actuation of said activation icon and processing said position codes and tracking pen position to record handwritten information by interaction of said pen with said writing surface, said processor identifying the position code of said activation icon and issuing an instruction to initiate the computer function the activation icon represents;~~

a second processor portion receiving said instruction generated by said first processor ~~portion~~ and initiating the computer function the activation icon represents,

said second processor portion computer function utilizing the handwritten information recorded from said writing surface position code elements.

52.-53. (*Canceled*).

54. (*Currently Amended*) The system of claim 53 claim 51 wherein said digital computer displays the handwritten information is displayed as an image in a program window associated with an application in said a digital computer located remotely from the processor system computer in response to actuation of said activation icon.

55.-56. (*Canceled*).

57. (*Previously Presented*) A device as claimed in claim 20, in which the processing circuitry is arranged to initiate the predetermined operation by transferring the pen path information together with an indication of the predetermined operation to an external unit.

58. (*Previously Presented*) A device as claimed in claim 57, in which the processing circuitry is arranged to carry out the transfer to the external unit immediately after having identified pen interaction with the activation icon.

59. (*Previously Presented*) A device as claimed in claim 57, in which the processing circuitry is arranged to retain the pen path information after having identified pen interaction with the activation icon and to carry out the transfer to the external unit at a later occasion.

60. (*Currently Amended*) The information management device of claim 20, wherein each position code comprises is coded by a plurality of symbols and wherein each symbol contributes to the coding of more than one position.

61. (*Currently Amended*) The information management device of claim 20, wherein the position code comprises a raster and a plurality of substantially similar markings, ~~the value of each symbol being determined by the displacement of a marking in relation to said raster~~ ~~each of which is displaced in relation to a respective nominal position defined by the raster to code the positions of the position code.~~

62. (*Currently Amended*) The computer program of claim 39, wherein each position code ~~comprises~~ is coded by a plurality of symbols and wherein each symbol contributes to the coding of more than one position.

63. (*Currently Amended*) The computer program of claim 39, wherein the position code comprises a raster and a plurality of substantially similar markings, ~~each of which is displaced in relation to a respective nominal position defined by the raster to code the positions of the position code~~ ~~the value of each symbol being determined by the displacement of a marking in relation to said raster.~~

64. (*Currently Amended*) The system of claim 43, wherein each position code ~~comprises~~ is coded by a plurality of symbols and wherein each symbol contributes to the coding of more than one position.

65. (*Currently Amended*) The system of claim 43, wherein the position code comprises a raster and a plurality of substantially similar markings, ~~each of which is displaced in relation to a respective nominal position defined by the raster to code the positions of the position code~~ ~~the value of each symbol being determined by the displacement of a marking in relation to said raster.~~

66.-67. (*Canceled*).

68. (*Currently Amended*) The method of claim 47, wherein each position code comprises s~~is~~ coded by a plurality of symbols and wherein each symbol contributes to the coding of more than one position.

69. (*Currently Amended*) The method of claim 47, wherein the position code comprises a raster and a plurality of s~~ymbol~~s substantially similar markings, each of which is displaced in relation to a respective nominal position defined by the raster to code the positions of the position code~~the value of each symbol being determined by the displacement of a marking in relation to said raster~~.

70. (*Currently Amended*) The system of claim 51, wherein each position code comprises s~~is~~ coded by a plurality of symbols and wherein each symbol contributes to the coding of more than one position.

71. (*Currently Amended*) The system of claim 51, wherein the position code comprises a raster and a plurality of s~~ymbol~~s substantially similar markings, each of which is displaced in relation to a respective nominal position defined by the raster to code the positions of the position code~~the value of each symbol being determined by the displacement of a marking in relation to said raster~~.

72. (*New*) The product of claim 1, wherein the first subset of the position code codes coordinates forming a first coordinate area which is continuous with a second coordinate area formed by coordinates coded by the second subset of the position code.

73. (*New*) The product of claim 1, further comprising an activation icon being used to qualify the recorded information.